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**Supplementary Table S1. Sample Selection.**

Sample Selection	Count
Number of Medicare 65+ Part A and B enrollees in 2001	32,030,540
Restrict to continuous FFS enrollment from 1999-2001	21,882,461
Restrict to beneficiaries with dementia in 2001	2,207,326
Restrict to beneficiaries with no dementia diagnosis prior to 2001 (incident only, final sample)	670,955

**Supplementary Table S2. Five-Year Mortality Risk in All States by Race/Ethnicity (Relative to California)**

State	African American	American Indian/Alaska Native	Asian/Pacific Islander	Hispanic	Non-Hispanic White
AK	1.102	1.116**	1.314**	1.170	0.947**
AL	1.120***	1.131	1.377**	1.348***	1.073***
AR	1.044**	1.159*	1.560***	1.157*	0.970***
AZ	1.067*	0.889**	1.385***	1.228***	1.053***
CO	0.984	1.094	1.142**	1.220***	0.971***
CT	0.900**	0.941	1.180**	0.945*	0.917***
DE	1.049*	1.175	1.422***	1.125	1.021**
FL	1.012	1.014	1.290***	0.938***	0.984***
GA	1.094***	0.819	1.403***	1.149***	1.043***
HI	1.173	0.802	1.078***	1.106*	0.929***
IA	0.983	0.996	1.337**	1.228**	0.962***
ID	1.200	1.247**	1.228*	1.288***	1.098***
IL	0.985	1.024	1.116***	1.015	0.999
IN	0.990	1.034	1.224***	1.040	1.009**
KS	1.066**	0.988	1.244**	1.206***	0.966***
KY	1.062**	1.057	1.437***	1.098	1.043***
LA	1.063***	1.025	1.541***	1.160***	1.037***
MA	0.861***	0.697**	1.115**	0.924**	0.915***
MD	1.024*	0.950	1.122***	0.994	0.985**
ME	0.760*	0.815	1.591**	0.999	0.991*
MI	0.980*	0.933	1.125**	1.145***	1.023***
MN	0.953	1.006	1.157*	1.058	0.941***
MO	1.044**	1.118	1.245**	1.158**	0.986***
MS	1.058***	1.251*	1.241*	1.277**	1.031***
MT	0.897	1.111	1.273	1.185	1.007
NC	1.078***	0.840***	1.315***	1.116**	1.051***
ND	0.901	1.069	1.080	0.984	0.906***
NE	0.946	1.133	0.978	1.200**	1.008
NH	0.955	0.997	1.368**	1.078	0.964***
NJ	0.991	0.640**	1.132***	0.904***	0.959***
NM	1.038	0.912*	1.255	1.207***	1.052***
NV	0.993	1.204*	1.269***	1.156***	1.148***
NY	0.979**	0.937	1.044**	0.915***	0.946***
OH	0.988	0.975	1.238***	1.050	1.007**
OK	1.110***	1.094**	1.199**	1.221***	1.093***
OR	0.982	1.041	1.226**	1.136**	1.046***
PA	1.026	0.989	1.253***	1.053*	0.960***
RI	1.009	0.819	1.214	0.963	0.946***

SC	1.107	0.921	1.411***	1.196**	1.054***
SD	1.236	1.001	1.293	0.910	0.920***
TN	1.127***	0.828	1.359***	1.132*	1.056***
TX	1.025**	0.920	1.130***	1.044***	1.004
UT	1.011	1.095	1.339***	1.337***	1.128***
VA	1.111***	1.026	1.333***	1.094**	1.036***
VT	1.351	1.984	1.839**	1.265	1.004
WA	1.064*	1.106*	1.137***	1.077*	1.013**
WI	1.025	0.872*	1.275***	1.010	0.978***
WV	1.083**	1.077	1.097	1.135	1.048***
WY	0.950	0.971	1.277	1.164*	1.002
Other	1.076***	0.913	1.462***	0.888***	1.604***

\*\*\*p<0.001, \*\*p<0.01, \*p<0.05. The sample contained 8,080,098 beneficiaries with incident dementia diagnosis in any year from 2001 to 2013. Models were adjusted for age, age-squared, sex, comorbid condition indicators, Charlson Comorbidity Index, Charlson Comorbidity Index-squared, and Medicare Medicaid dual eligibility status. Estimates for American Indian/Alaska Native in VT and DE were not available due to small sample size. ‘Other’ (0.84%) includes DC, Puerto Rico, Virgin Islands, Guam, American Samoa, Saipan, Foreign Countries, or Unknown/Missing.

**Supplementary Table S3. Hazard Ratios of 5-Year Mortality by Year of Incident Dementia Diagnosis (2001-2013) and Race/Ethnicity (Relative to Non-Hispanic Whites)**

	African American	American Indian/Alaska Native	Asian/Pacific Islander	Hispanic
2001	0.897 (0.888-0.906)	0.980 (0.932-1.032)	0.649 (0.627-0.668)	0.509 (0.499-0.521)
2002	0.894 (0.884-0.903)	0.940 (0.894-0.990)	0.66 (0.639-0.678)	0.524 (0.513-0.535)
2003	0.893 (0.884-0.902)	0.960 (0.912-1.011)	0.667 (0.646-0.686)	0.553 (0.543-0.564)
2004	0.903 (0.894-0.912)	0.950 (0.902-1.000)	0.644 (0.624-0.663)	0.596 (0.586-0.607)
2005	0.899 (0.890-0.909)	0.959 (0.912-1.009)	0.694 (0.674-0.713)	0.668 (0.657-0.679)
2006	0.900 (0.890-0.910)	0.989 (0.939-1.040)	0.737 (0.716-0.756)	0.766 (0.754-0.779)
2007	0.902 (0.890-0.912)	0.996 (0.946-1.049)	0.716 (0.696-0.734)	0.76 (0.748-0.773)
2008	0.889 (0.879-0.900)	1.020 (0.969-1.072)	0.718 (0.699-0.736)	0.748 (0.736-0.760)
2009	0.889 (0.879-0.899)	1.054 (1.003-1.109)	0.717 (0.699-0.734)	0.728 (0.716-0.740)
2010	0.888 (0.877-0.898)	1.025 (0.974-1.077)	0.697 (0.679-0.713)	0.738 (0.726-0.750)
2011	0.900 (0.880-0.900)	1.004 (0.958-1.053)	0.709 (0.692-0.726)	0.733 (0.721-0.744)
2012	0.884 (0.874-0.895)	1.033 (0.985-1.084)	0.683 (0.667-0.699)	0.723 (0.712-0.735)
2013	0.888 (0.878-0.899)	1.083 (1.033-1.135)	0.715 (0.698-0.733)	0.732 (0.720-0.744)

The sample contained 8,080,098 beneficiaries with incident dementia diagnosis in any year from 2001 to 2013.

Models were adjusted for age, age-squared, sex, comorbid condition indicators, Charlson Comorbidity Index, Charlson Comorbidity Index-squared, and Medicare Medicaid dual eligibility status.

**Supplementary Table S4. OLS Estimation of Log-Linear Models of Survival Years for All Medicare Beneficiaries with Dementia Diagnosis in 2001 and by Factors (Relative to Non-Hispanic Whites)**

Hazard Ratio (95% CI)	African American	American Indian/ Alaska Native	Asian/ Pacific Islander	Hispanic
<i>Panel A. All</i>				
All	1.076*** (1.061-1.091)	1.04 (0.965-1.120)	1.537*** (1.469-1.609)	1.814*** (1.768-1.861)
<i>Panel B. By Sex</i>				
Male	1.009 (0.984-1.036)	1.14 (1.003-1.295)	1.487*** (1.378-1.605)	1.884*** (1.800-1.971)
Female	1.116*** (1.097-1.134)	0.985 (0.899-1.079)	1.562*** (1.475-1.654)	1.778*** (1.724-1.834)
<i>Panel C. By Age at Diagnosis</i>				
65-75	1.055*** (1.026-1.085)	1.154 (1.010-1.318)	1.739*** (1.159-1.904)	1.910*** (1.826-1.998)
76-80	1.068*** (1.038-1.100)	1.051 (0.907-1.217)	1.729*** (1.581-1.891)	1.807*** (1.722-1.896)
81-85	1.080*** (1.048-1.112)	0.962 (0.826-1.119)	1.470*** (1.346-1.606)	1.697*** (1.608-1.791)
86+	1.115*** (1.085-1.146)	1.006 (0.856-1.183)	1.297*** (1.181-1.425)	1.819*** (1.714-1.929)
<i>Panel D. By Socioeconomic Status</i>				
Non-Dual Eligibility	1.014 (0.994-1.034)	0.999 (0.900-1.108)	1.418*** (1.319-1.524)	1.806*** (1.742-1.873)
Dual Eligibility	1.122*** (1.099-1.145)	1.068 (0.960-1.188)	1.556*** (1.467-1.651)	1.816*** (1.751-1.883)
<i>Panel E. By Rural/Urban Living</i>				
Urban	1.085*** (1.068-1.102)	1.015 (0.907-1.135)	1.534*** (1.462-1.609)	1.827*** (1.771-1.886)
Rural	1.053** (1.021-1.087)	1.032 (0.934-1.140)	1.154 (0.980-1.359)	1.773*** (1.696-1.853)

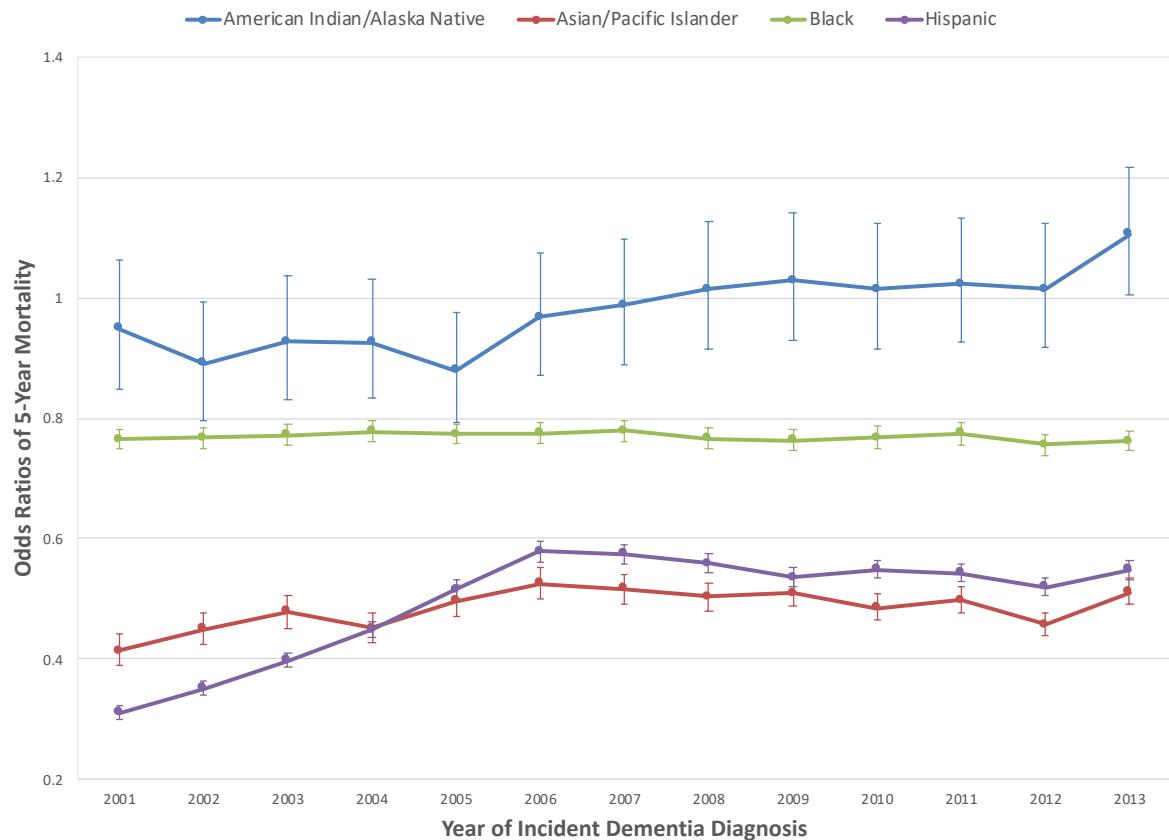
\*\*\*p<0.001, \*\*p<0.01, \*p<0.05. All p-values were corrected using Bonferroni method, to adjust for multiplicity. Log-linear OLS models were adjusted for age at diagnosis and age-squared, sex, comorbid condition indicators (for hypertension, hyperlipidemia, acute myocardial infarction, atrial fibrillation, stroke, and diabetes), Charlson Comorbidity Index, Charlson Comorbidty Index squared, and Medicare Medicaid dual eligibility status. The sample contained 670,955 beneficiaries with incident dementia diagnosis in 2001.

**Supplementary Table S5. Odds Ratios of 5-Year Mortality Using Logistic regressions by Year of Incident Dementia Diagnosis (2001-2013) and Race/Ethnicity (Relative to Non-Hispanic Whites)**

	African American	American Indian/Alaska Native	Asian/Pacific Islander	Hispanic
2001	0.765 (0.749-0.782)	0.95 (0.848-1.064)	0.413 (0.389-0.441)	0.31 (0.300-0.321)
2002	0.767 (0.750-0.784)	0.89 (0.797-0.995)	0.45 (0.424-0.477)	0.351 (0.339-0.363)
2003	0.772 (0.756-0.789)	0.928 (0.830-1.037)	0.478 (0.452-0.507)	0.397 (0.385-0.410)
2004	0.779 (0.763-0.795)	0.926 (0.832-1.031)	0.451 (0.428-0.476)	0.448 (0.435-0.462)
2005	0.773 (0.757-0.790)	0.88 (0.793-0.976)	0.496 (0.471-0.522)	0.515 (0.500-0.530)
2006	0.776 (0.759-0.793)	0.968 (0.871-1.075)	0.526 (0.500-0.553)	0.578 (0.562-0.596)
2007	0.779 (0.761-0.797)	0.988 (0.889-1.099)	0.516 (0.492-0.542)	0.574 (0.557-0.591)
2008	0.767 (0.749-0.784)	1.015 (0.914-1.127)	0.503 (0.480-0.527)	0.558 (0.542-0.574)
2009	0.764 (0.746-0.781)	1.029 (0.929-1.140)	0.51 (0.487-0.534)	0.536 (0.521-0.552)
2010	0.768 (0.750-0.786)	1.014 (0.914-1.125)	0.485 (0.464-0.507)	0.549 (0.533-0.565)
2011	0.774 (0.757-0.792)	1.024 (0.926-1.132)	0.497 (0.476-0.520)	0.543 (0.528-0.559)
2012	0.756 (0.738-0.773)	1.015 (0.917-1.123)	0.457 (0.438-0.478)	0.519 (0.505-0.535)
2013	0.762 (0.745-0.780)	1.105 (1.004-1.218)	0.511 (0.490-0.534)	0.547 (0.532-0.564)

The sample contained 8,080,098 beneficiaries with incident dementia diagnosis in any year from 2001 to 2013. Logistic regressions with 5-year mortality as the outcome were adjusted for age, age-squared, sex, comorbid condition indicators, Charlson Comorbidity Index, Charlson Comorbidity Index-squared, and Medicare Medicaid dual eligibility status.

**Supplementary Figure 1. Five-Year Mortality Risk by Race/Ethnicity (Relative to Whites) Using Logistic Regression, 2001-2013**



**Supplementary Table S6. Distribution of Race/Ethnicity by Switching from Fee-For-Service Medicare to Medicare Advantage Plans**

	Non-switchers	Switchers
African American(%)	58,131 (9.10%)	4,357 (13.46%)
American Indian/Alaska Native(%)	1,883 (0.29%)	58 (0.18%)
Asian/Pacific Islander(%)	4,531 (0.71%)	675 (2.09%)
Hispanic(%)	13,124 (2.06%)	4,090 (12.64%)
White(%)	555,927 (87.05%)	22,974 (70.99%)
Other(%)	2,507 (0.39%)	134 (0.41%)
Missing(%)	2,490 (0.39%)	74 (0.29%)